

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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FIGURE 1A

1	GCACGAGAAACTTTGCTGTGCGCGTTCTCCCGCGCGCGGGCTCAACTTTGTAGAGCGAGG	60
61	GGCCAACTTGGCAGAGCGCGCGGCCAGCTTTGCAGAGAGCGCCCTCCAGGACTATGCGT	120
121	GCGGGGACACGGGTGCGCTTTGGGCTCTTCCACCCTGCGGAGCGCACTACCCCGAGCCAG	180
181	GGGCGGTGCAAGCCCCGCGCGGCCCTACCCAGGCGCGCTCTCTCCCTCCGCAGCGCCGAGA	240
241	CTTTTAGTTTCGCTTTTCGCTAAAGGGGCCCCAGACCCTTGCTGCGGAGCGACGGAGAGAG	300
301	ACTGTGCCAGTCCCAGCGCCCTACCGCCGTGGGAAAGATGGCAGATGATCAGGGCTGTA	360
1	M A D D Q G C I	8
361	TTGAAGAGCAGGGGGTTGAGGATTCAGCAAATGAAGATTCAGTGGATGCTAAGCCAGACC	420
9	E E Q G V E D S A N E D S V D A K P D R	28
421	GGTCTCGTTTGTACCGTCCCTCTTCAGTAAGAAGAAGAAAATGTCACCATGCGATCCA	480
29	S S F V P S L F S K K K K N V T M R S I	48
481	TCAAGACCACCGGGACCGAGTGCCTACATATCAGTACAACATGAATTTTGAAAAGCTGG	540
49	K T T R D R V P T Y Q Y N M N F E K L G	68
541	GCAAATGCATCATAATAAACAACAAGAAGCTTTGATAAAGTGACAGGTATGGGCGTTTCGAA	600
69	K C I I I N N K N F D K V T G M G V R N	88
601	ACGGAACAGACAAAGATGCCGAGGCGCTCTTCAAGTGCTTCCGAAGCCTGGGTTTGTACG	660
89	G T D K D A E A L F K C F R S L G F D V	108
661	TGATTGTCTATAATGACTGCTCTTGTGCCAAGATGCAAGATCTGCTTAAAAAAGCTTCTG	720
109	I V Y N D C S C A K M Q D L L K K A S E	128
721	AAGAGGACCATACAAATGCCGCGCTGCTTCGCCTGCATCCTCTTAAGCCATGGAGAAGAAA	780
129	E D H T N A A C F A C I L L S H G E E N	148
781	ATGTAATTTATGGGAAAGATGGTGTACACCAATAAAGGATTTGACAGCCCACTTTAGGG	840
149	V I Y G K D G V T P I K D L T A H F R G	168
841	GGGATAGATGCAAAACCCCTTTTAGAGAAACCCAAACTCTTCTTCATTCAGGCTTGCCGAG	900
169	D R C K T L L E K P K L F F I Q A C R G	188
901	GGACCGAGCTTGATGATGCCATCCAGGCCGACTCGGGGCCCCATCAATGACACAGATGCTA	960
189	T E L D D A I Q A D S G P I N D T D A N	208

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FIGURE 3B

58	ICE-IAP-3	240	YQ	Y N	M N F E K L	230	Y Q	Y N	M N F E K L	220	Y Q	Y N	M N F E K L	210	Y Q	Y N	M N F E K L	ICE-IAP-3
37	ICE-IAP-4	240	Y K	Y K	M D Y P E M	230	Y K	Y K	M D Y P E M	220	Y K	Y K	M D Y P E M	210	Y K	Y K	M D Y P E M	ICE-IAP-4
122	Human ICE	240	S S	S S	E G N V K L C S L E E A Q R	230	S S	S S	E G N V K L C S L E E A Q R	220	S S	S S	E G N V K L C S L E E A Q R	210	S S	S S	E G N V K L C S L E E A Q R	Human ICE
197	CED-3	240	P T Q	P T Q	M N F V D A P T I S R V F D E K T	230	P T Q	P T Q	M N F V D A P T I S R V F D E K T	220	P T Q	P T Q	M N F V D A P T I S R V F D E K T	210	P T Q	P T Q	M N F V D A P T I S R V F D E K T	CED-3
68	ICE-IAP-3	280	G K C I	I I N N K N F D K V	T G M G V R N G T D K D A E A L	270	G K C I	I I N N K N F D K V	T G M G V R N G T D K D A E A L	260	G K C I	I I N N K N F D K V	T G M G V R N G T D K D A E A L	250	G K C I	I I N N K N F D K V	T G M G V R N G T D K D A E A L	ICE-IAP-3
45	ICE-IAP-4	280	G L C I	I I N N K N F H K S	T G M T S R S G T D V D A A N L	270	G L C I	I I N N K N F H K S	T G M T S R S G T D V D A A N L	260	G L C I	I I N N K N F H K S	T G M T S R S G T D V D A A N L	250	G L C I	I I N N K N F H K S	T G M T S R S G T D V D A A N L	ICE-IAP-4
153	Human ICE	280	Y P I M D K	S S R T R L A L I I C N E E F F D	S I P R R T G A E V D I T G M	270	Y P I M D K	S S R T R L A L I I C N E E F F D	S I P R R T G A E V D I T G M	260	Y P I M D K	S S R T R L A L I I C N E E F F D	S I P R R T G A E V D I T G M	250	Y P I M D K	S S R T R L A L I I C N E E F F D	S I P R R T G A E V D I T G M	Human ICE
235	CED-3	280	Y R N F	S S P R G M C L I I N N E H F E Q	M P T R N G T K A D K D N L	270	Y R N F	S S P R G M C L I I N N E H F E Q	M P T R N G T K A D K D N L	260	Y R N F	S S P R G M C L I I N N E H F E Q	M P T R N G T K A D K D N L	250	Y R N F	S S P R G M C L I I N N E H F E Q	M P T R N G T K A D K D N L	CED-3
98	ICE-IAP-3	320	F K C F R S	L G F D V I V Y N D C S C A K M Q D	L L K K A S E	310	F K C F R S	L G F D V I V Y N D C S C A K M Q D	L L K K A S E	300	F K C F R S	L G F D V I V Y N D C S C A K M Q D	L L K K A S E	290	F K C F R S	L G F D V I V Y N D C S C A K M Q D	L L K K A S E	ICE-IAP-3
75	ICE-IAP-4	320	R E T F R N L K	Y E V R N K N D L T R E E I V E L M R D V S K	E D H T N A A	310	R E T F R N L K	Y E V R N K N D L T R E E I V E L M R D V S K	E D H T N A A	300	R E T F R N L K	Y E V R N K N D L T R E E I V E L M R D V S K	E D H T N A A	290	R E T F R N L K	Y E V R N K N D L T R E E I V E L M R D V S K	E D H T N A A	ICE-IAP-4
190	Human ICE	320	T M L L Q N L G Y S	V D V K K N L T A S D M T T E L E A F A H R P E E H K T S D S	H E S H G D S	310	T M L L Q N L G Y S	V D V K K N L T A S D M T T E L E A F A H R P E E H K T S D S	H E S H G D S	300	T M L L Q N L G Y S	V D V K K N L T A S D M T T E L E A F A H R P E E H K T S D S	H E S H G D S	290	T M L L Q N L G Y S	V D V K K N L T A S D M T T E L E A F A H R P E E H K T S D S	H E S H G D S	Human ICE
270	CED-3	320	T N L F R C M G Y T	V I C K D N L T G R G M L L T I R D F A K	H E S H G D S	310	T N L F R C M G Y T	V I C K D N L T G R G M L L T I R D F A K	H E S H G D S	300	T N L F R C M G Y T	V I C K D N L T G R G M L L T I R D F A K	H E S H G D S	290	T N L F R C M G Y T	V I C K D N L T G R G M L L T I R D F A K	H E S H G D S	CED-3
136	ICE-IAP-3	360	C F A C I L L S H G E E N V I	Y G K	D G	350	C F A C I L L S H G E E N V I	Y G K	D G	340	C F A C I L L S H G E E N V I	Y G K	D G	330	C F A C I L L S H G E E N V I	Y G K	D G	ICE-IAP-3
1113	ICE-IAP-4	360	S F V C V L L S H G E E G I	I F C T	N G	350	S F V C V L L S H G E E G I	I F C T	N G	340	S F V C V L L S H G E E G I	I F C T	N G	330	S F V C V L L S H G E E G I	I F C T	N G	ICE-IAP-4
2230	Human ICE	360	T P L	V F M S H G I R E G I	C G K K H S E Q V P D I L Q L N A I F N M L N T K	350	T P L	V F M S H G I R E G I	C G K K H S E Q V P D I L Q L N A I F N M L N T K	340	T P L	V F M S H G I R E G I	C G K K H S E Q V P D I L Q L N A I F N M L N T K	330	T P L	V F M S H G I R E G I	C G K K H S E Q V P D I L Q L N A I F N M L N T K	Human ICE
3308	CED-3	360	A I L	V I L S H G E E N V I	I G V	350	A I L	V I L S H G E E N V I	I G V	340	A I L	V I L S H G E E N V I	I G V	330	A I L	V I L S H G E E N V I	I G V	CED-3
170	ICE-IAP-3	400	R C K T L	E K P K L F F I	Q A C R G T E L D	390	R C K T L	E K P K L F F I	Q A C R G T E L D	380	R C K T L	E K P K L F F I	Q A C R G T E L D	370	R C K T L	E K P K L F F I	Q A C R G T E L D	ICE-IAP-3
1447	ICE-IAP-4	400	R C R S L	T G K P K L F I	I Q A C R G T E L D	390	R C R S L	T G K P K L F I	I Q A C R G T E L D	380	R C R S L	T G K P K L F I	I Q A C R G T E L D	370	R C R S L	T G K P K L F I	I Q A C R G T E L D	ICE-IAP-4
2069	Human ICE	400	N C P S L	K D K P K V I I	I Q A C R G D	390	N C P S L	K D K P K V I I	I Q A C R G D	380	N C P S L	K D K P K V I I	I Q A C R G D	370	N C P S L	K D K P K V I I	I Q A C R G D	Human ICE
342	CED-3	400	N A P R L	A N K P K I V F V	Q A C R G E R R D	390	N A P R L	A N K P K I V F V	Q A C R G E R R D	380	N A P R L	A N K P K I V F V	Q A C R G E R R D	370	N A P R L	A N K P K I V F V	Q A C R G E R R D	CED-3

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FIGURE 3C

204	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
307	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
382	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
226	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
200	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
334	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
422	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
266	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
240	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
371	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
462	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
302	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
276	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
404	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3
499	ICE-LAP-3	ICE-LAP-4	Human ICE	CED-3

Decoration 'Decoration #1': Shade (with solid black) residues that match the Consensus exactly.

1 GCACGAGAACTTTGCTGTGCGCGTTCTCCCGCGCGCGGGCTCAACTTTGTAGAGCGAGG
 61 GGCCAACTTGGCAGAGCGCGCGGCCAGCTTTGCAGAGAGCGCCCTCCAGGGACTATGCGT
 1 1 M R
 121 GCGGGGACACGGGTGCGTTTGGGCTCTTCCACCCCTGCGGAGCGCACTACCCCGAGCCAG
 3 A G T R V A L G S S T P A E R T T P S Q
 181 GGGCGGTGCAAGCCCCGCGGCCCTACCCAGGGCGGCTCCTCCCTCCGCAGCGCCGAGA
 23 G R C K P R P A L P R A A P P S A A P R
 241 CTTTTAGTTTCGCTTTCGCTAAAGGGGCCCCAGACCCTTGCTGCGGAGCGACGGAGAGAG
 43 L L V S L S L K G P Q T L A A E R R R E
 301 ACTGTGCCAGTCCCAGCCGCCCTACCGCCGTGGGAACGATGGCAGATGATTGAGGGCTGT
 63 T V P V P A A L P P W E R W Q M I Q G C
 361 ATTGAAGAGCAGGGGGTTGAGGATTCAGCAAATGAAGATTCAGTGGATGCTAAGCCAGAC
 83 I E E Q G V E D S A N E D S V D A K P D
 421 CGGTCCTCGTTTGTACCGTCCCTCTTCAGTAAGAAGAAGAAAAATGTCACCATGCGATCC
 103 R S S F V P S L F S K K K K N V T M R S
 481 ATCAAGACCACCCGGGACCGAGTGCCTACATATCAGTACAACATGAATTTTGAAAAGCTG
 123 I K T T R D R V P T Y Q Y N M N F E K L
 541 GGCAAATGCATCATAATAACAACAAGAACTTTGATAAAGTGACAGGTATGGGCGTTTGA
 143 G K C I I I N N K N F D K V T G M G V R
 601 AACGGAACAGACAAAGATGCCGAGGCGCTCTTCAAGTGCTTCCGAAGCCTGGGTTTGTAC
 163 N G T D K D A E A L F K C F R S L G F D
 661 GTGATTGTCTATAATGACTGCTCTTGTGCCAAGATGCAAGATCTGCTTAAAAAAGCTTCT
 183 V I V Y N D C S C A K M Q D L L K K A S
 721 GAAGAGGACCATACAAATCCGCGCTGCTTCGCTGCATCCTCTTAAGCCATGGAGAAGAA
 203 E E D H T N A A C F A C I L L S H G E E
 781 AATGTAATTTATGGGAAAGATGGTGTCACACCAATAAAGGATTTGACAGCCCACTTTAGG
 223 N V I Y G K D G V T P I K D L T A H F R
 841 GGGGATAGATGCAAAACCCTTTTAGAGAAACCCAACTCTTCTTCATTGAGGCTTGCCGA
 243 G D R C K T L L E K P K L F F I Q A C R
 901 GGGACCGAGCTTGATGATGGCATCCAGGCCGACTCGGGGCCCATCAATGACACAGATGCT
 263 G T E L D D G I Q A D S G P I N D T D A
 961 AATCCTCGATAACAAGATCCCAGTGGAAAGCTGACTTCCTCTTCGCCTATTCCACGGTTCCA
 283 N P R Y K I P V E A D F L F A Y S T V P
 1021 GGCTATTACTCGTGGAGGAGCCCAGGAAGAGGCTCCTGGTTTGTGCAAGCCCTCTGCTCC
 303 G Y Y S W R S P G R G S W F V Q A L C S
 1081 ATCCTGGAGGAGCACGGAAAAGACCTGGAAATCATGCAAATCCTCCACCAGGGTGAATGA
 323 I L E E H G K D L E I M Q I L H Q G E *
 1141 CAGAGTTGCCAGGCACTTTGAGTCTCAGTCTGATGACCCACACTTCCATGAGAAGAAGCA

 1201 GATCCCCTGTGTGGTCTCCATGCTCACCAAGGAAGCTCTACTTCAGTCAATAGCCATATCA
 1261 GGGGTACATTCTAGCTGAGAAGCAATGGGTCACTCATTGAATCACATTTTTTTATGC
 1321 TCTTGAAATATTGAGAAATTCTCCAGGATTTTAATTTTCAGGAAAATGTATT

Figure 1

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1 GCACGAGCGGATGGGTGCTATTGTGAGGCGGTTGTAGAAGAGTTTCGTGAGTGCTCGCAG
 61 CTCATACCTGTGGCTGTGTATCCGTGGCCACAGCTGGTTGGCGTCGCCTTGAAATCCCAG
 121 GCCGTGAGGAGTTAGCGAGCCCCTGCTCACACTCGGCGCTCTGGTTTTCGGTGGGTGTGCC
 181 CTGCACCTGCCTCTTCCCGCATTCTCATTAATAAAGGTATCCATGGAGAACACTGAAAAC
 1 M E N T E N
 241 TCAGTGGATTCAAAATCCATTA AAAATTTGGAACCAAAGATCATACATGGAAGCGAATCA
 7 S V D S K S I K N L E P K I I H G S E S
 301 ATGGACTCTGGAATATCCCTGGACAACAGTTATAAAATGGATTATCCTGAGATGGGTTTA
 27 M D S G I S L D N S Y K M D Y P E M G L
 361 TGTATAATAATTAATAATAAGAATTTTCATAAAAGCACTGGAATGACATCTCGGTCTGGT
 47 C I I I N N K N F H K S T G M T S R S G
 421 ACAGATGTCGATGCAGCAAACCTCAGGGAAACATTCAGAAACTTGAAATATGAAGTCAGG
 67 T D V D A A N L R E T F R N L K Y E V R
 481 AATAAAATGATCTTACACGTGAAGAAATTGTGGAATTGATGCGTGATGTTTCTAAAGAA
 87 N K N D L T R E E I V E L M R D V S K E
 541 GATCACAGCAAAGGAGCAGTTTTGTTGTGCTTCTGAGCCATGGTGAAGAAGGAATA
 107 D H S K R S S F V C V L L S H G E E G I
 601 ATTTTTGGAACAAATGGACCTGTTGACCTGAAAAAATAACAAACTTTTTTCAGAGGGGAT
 127 I F G T N G P V D L K K I T N F F R G D
 661 CGTTGTAGAAGTCTAACTGGAAAACCCAAACTTTTCATTATTCAGGCCTGCCGTGGTACA
 147 R C R S L T G K P K L F I I Q A C R G T
 721 GAACTGGACTGTGGCATTGAGACAGACAGTGGTGTGATGATGACATGGCGTGTCATAAA
 167 E L D C G I E T D S G V D D D M A C H K
 781 ATACCAGTGGAGGCCGACTTCTTGATGCATACTCCACAGCACCTGGTTATTATTCTTGG
 187 I P V E A D F L Y A Y S T A P G Y Y S W
 841 CGAAATTCAAAGGATGGCTCCTGGTTCATCCAGTCGCTTTGTGCCATGCTGAAACAGTAT
 207 R N S K D G S W F I Q S L C A M L K Q Y
 901 GCCGACAAGCTTGAATTTATGCACATTCTTACCCGGGTTAACCGAAAGGTGGCAACAGAA
 227 A D K L E F M H I L T R V N R K V A T E
 961 TTTGAGTCCTTTTCTTTTACGCTACTTTTCATGCAAAGAAACAGATTCCATGTATTGTT
 247 F E S F S F D A T F H A K Q I P C I V
 1021 TCCATGCTCACAAAAGAACTCTATTTTTATCACTAAAGAAATGGTTGGTTGGTGGTTTTT
 267 S M L T K E L Y F Y H *
 1081 TTTAGTTTGTATGCCAAGTGAGAAGATGGTATATTTGGGTACTGTATTTCCCTCTCATTG
 1141 GGGACCTACTCTCATGCTG

Figure 2

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Figure 3